Illustrations.

SILVER PRINTS.

Genre Subject . . . . . *Mrs. J. Cleveland* 27
Flash-Light Picture . . . . . *H. Parker Rolfe* 65
Embarkation of Columbus . . . . . *Thomas H. McCollin* . . . 93
Genre Subject . . . . . *Mrs. J. Cleveland* 120
Shad Fishing on the Delaware . . . . . *Thomas H. McCollin* . . . 153
Folwell's Washington . . . . . *J. F. Sachse* 183
Portrait Study . . . . . *W. H. Stauffer* 212
"An Old Mill on the Crum" . . . . . *J. F. Sachse* 242
A Bit of Mount Desert Coast . . . . . *Xanthus Smith* 276
Portrait Study . . . . . *Richards & Co.* 309
Groups by Blitz-Pulver . . . . . *M. R. Hemperley* 341

PROCESS.

Dinant . . . . . *Ellerslie Wallace, Jr.* . . . 1
A Tree Study . . . . . *Julius F. Sachse* 70
Fac-Simile of Docket Entry 98
Fac-Simile of Gyphantia 121
Washington Headquarters at Valley Forge 161
Portrait of Daguerre 199
Citheronia Regalis Larva . . . . . *J. F. Sachse* 259
Citheronia Regalis Moth . . . . . *J. F. Sachse* 260
The Old Tower on Jamestown Island, Va. . . *Prof. J. F. Rothrock* . . . 323

L770.51
A5128

37068
9859

Index.

A

American Water-Color Society . 39
Amateur, The, Photographer on the Witness Stand 56
Amateur Experiences, I., J. Focus Snappschotte, 83; II. (Illustrated), 98· III. (Illustrated), 165; IV., 193; V., 227; VI., The Hotel Dark Room, 257; VII., Accidental Meeting of L. C. C. 301; VIII., Amphibian Photo. (Illustrated), 332; IX., 365
Art Journal 90
A Fortunate Amateur. Adolphé 131
Automatic Photo. Machines . . 164
Abney W. de W., Paper by . . 171
An Ennobled Professional. Adolphé 176
A New Social Fancy 177
Albumen Paper, Durable Sensitized 270
At Home Portraits and Groups. W. H. Harrison 283
Artistic Blue Prints 327
Albumen Paper. John R. Clemmons 331
Announcement for 1891 341
Acid Fixing Bath. W. K. B. . . 352

B

Boston Camera Club. E. F. Wilder 61
Botanical Photography. J. F. Sachse. (Illustrated.) 70
Bell, William, Paper by 76
Blue Prints on Albumen Paper, 172; Artistic 327
Black Lines on White Ground . . 179
Bolton, Gamvier, Paper by . . 221
Balin, Ada S., Paper by 260
Blue Prints of Lantern Slides . . 272
Blitz-Pulver *vs.* Flash-Lamp. Prof. Eder 279
Burton, W. K., Paper by . . . 323
Backgrounds, and How to Hang Them 358
Bath, To Determine Concentration of 370
Background Paint 371

C

Concurrent Development and Fixation. D. W. Richmond . . 21
Camera Club of New Orleans . . 27
Cincinnati Art Academy . . . 38
Crystalline Deposits on Lantern Slides 40
Changing Box, Use of 40
Cleveland, Mrs. J., Illustration by 27
California, Glimpses of 62
Criminal Jurisprudence, Photography in. J. F. Sachse . . . 65
Continuous Film, Possibilities of, T. H. L. 73
Crotonwanze, The, Dr. A. Miethe, 88; J. F. S. 168
Camera, The, in Court. C. H. Miller 115
Curiosity, Photographic 117
Composite Photography Again. H. H. Supplee 129
Convention at Washington, P. A. of A. 188, 225, 267
Carbon Process, Novel 210
Camera, The, Historian of the Future. J. F. Sachse 212
Caution to Photographers. J. F. S. 233

Chromo-Photography 224
Canvas, Sensitizing for Enlargements 237
Citheronia Regalis (Illustrated) . 259
Celloidan Paper 270
Camera, The, and Ethnology . 287
Color Screen, Use of, with Plain Plates. Herman Lemp, 300; Reply to 347
Cutting Prices. Xanthus Smith . 309
Composite Heliochromy. F. E. Ives 313
Cyanine, Experiments with. W. K. Burton 319
Ceramic Photography 324
Clemons, John R., Paper by . . 329
Children, Photographing of. H. S. Keller 334
Carbutt John, Contribution by . 344
Coloring Dry-Plate LanternSlides 356

D

Dinant (Illustrated) 7
Darkened Silver Chloride Not an Oxychloride. M. Carey Lea . 16
Danger, A New, to American Industry. J. F. Sachse 11
Detroit Am. Photo. Society . . 61
Dark Rooms for Amateurs . . . 90
Development Methods in Germany 103, 134
Dundore, Edw., Paper by . . . 158
Details about Prints. Ellerslie Wallace 186
Development, Record in . . . 196
Daguerre Monument in Berlin . 198
Daguerre, Sketch of (Illustrated). J. F. Sachse 199
Developer, Compound Eiko-Hydro, 232; Orthochromatic, 265; Eiko-Soda 266
Development in Water, 241; in Full Daylight, 326; of Transparencies, 273; of Over-Exposed Films 344
Development. G. Cramer . . . 295
Dynamite Blast Photographed . 354

E

Eastman Co. 26
Electric Candle Cure 53
Editorial, Heliochromy 368
Enlargements. H. H. Supplee 74
Emulsions. William Bell . . . 76
Experiences. W. H. Rau . . . 81
Egbert, Jos. C., Dr. 118
Etiquette of Photography . . . 131
Eclipse Photography. A. Taylor, A.R.S.M. 203
Extra Illustrations, Photographs as 230
Enlargements, Sensitizing Canvas 237
Enterprise, Professional 240
Entomological Photography(Illustrated). J. F. Sachse 259
Ethnology and the Camera. J.W. Fewkes 287
Electric Spark, Photograph of (Illustrated) 291
Expression of Formulæ in Proportionate Values. W. H. Seaman 297
Eikonogen, Decomposition of . 305
Eyesight, Effect of Retouching on 328
Engravings, Systematic Method of Copying 335

F

Flash-Light Compounds, Dangers of. Chas. L. Mitchell, M.D. . 3
Frankford Camera Club 88
Focusing in Landscape Photography. Ellerslie Wallace . . 101
Fixing with Magnesium Chloride. R. E. Liesegang 117
Flash-Light Negatives, Development of 119
Fixing Plates. Ellerslie Wallace 163
Flash-Light, New. T.Taylor,M.D. 167
Folwell's Washington (Illustrated). J. F. Sachse 183

Faded Prints, Restoring 239
Film, Carving the 242
Fewkes, J. W., Paper by 287
Flexible Plates, Treatment of. Moniteur 303
F. C. S., Contribution by, on Color Screens 347

G

Graff, Fredk., Death of, 112; Memorial of 142
Gyphantia Redivivus (Illustrated). J. F. Sachse 121
Gelatine Negatives, Want of Density. Ellerslie Wallace . . . 127
Ground Glass 172
Gelatinography 202
Glue, Waterproof 242
Great Britain, Photo. Society of 263
Grant Portrait, The 315
General Notes 338

H

Hepworth, F. C., Paper by . . 43
Home Portraiture. H. H. Supplee 153
Half-Tone Block Process . . . 172
Historical Photographs, Permanent 250
Harrison, W. H., Contribution by 283
Hand Cameras 298
Hyposulphate Elimination from Prints 299, 343
Hints about Negatives 307
Heliocromy, Composite. F. E. Ives 313
Hemperley, M. R., Illustration by 340
Heliochromy, Editorial on, 368, 224

I

Intensification and Reduction (Local). A. Einsle 31
Influence of the Process of Cooling upon Optical Glass . . . 49
Increased Brilliancy. Ellerslie Wallace 93
India, Photo. Society of 118
Isochromatic Plates, Use of Screens with 235
Intensification, New Method, 236; Davidson 241
Ives, Fred. E., Contribution by, 313; Notice of 364
Intensification of Prints, The. Lionel Clark 349
In Tropical Seas. Dr. J. F. Rothrock 355
Illustration, Blitz-Pulver. M. R. Hemperley 357

K

Kirchner Athanasius 119
Keller, H. S., Paper by 334

L

Lynn Camera Club 83
Local License Laws 39
Lantern Slides, Crystalline Deposit on 40
Lantern Slides, Clouds in. T. C. Hepworth, F.C.S. 43
Lockwood, J. E., Contribution by 61
Lantern Slides Tinting 102
Literary and Business Notes, 120, 152, 274, 306, 372
Light, Powerful New 174
Lantern Slides, Developers for . 231
Lightning Pictures 239
Lighting Judicious 239
Lantern Slides, Blue Prints of . 272
Lemp, Herman, Contribution by 300
Lantern Slide Making with Camera 311
Lantern Slide on Coloring Dry Plate 356
Lanterns, Stereoscopic Views in 370

M

Mitchell, Chas. L., Contribution by 3, 33
Metric System. W. H. Seaman, M.D. 67
Metre, Note from 87
Makroscopic Photography . . . 147
Magic Photographs 149
Meteorology and Photography . 177

Military Photography 197
Maris, A. E., Contribution by . 294
McCollin, Thos. H., Illustration by 181
Microscope, The, and Photography 351

N

Napthalin Derivatives in Photography 318
Neglected Processes 23
Natural Colors, Photography in. Franz de Veress 132
Night-Blooming Cereus, The . . 148
Naval Photography 151
Negatives, Reproduction of, 175; Filling Holes in, 242; Hints About 307
Names on Plates 198
Niepce, J. N., Letter from . . . 200
Newspaper Illustrations, Photo-Mechanical, ... 269
Nasmyth, Jas., Death of 273

O

Optical Lantern, Notes on . . . 145
Orthoscopic Photography. Leon Vidal 191
Orthoskiagraphic Photography. Scolik 238
Orthochromatic Photography (Illustrated) 265
Orthochromatic Developer . . . 265
Old Tower on Jamestown Island. (Illustrated.) Prof. J. F. Rothrock 323
Over-Exposed Films, Development of. John Carbutt . . . 344

P

Phillips, Geo. Brinton, Contribution by 10
Photographic Perfection 14
Philadelphia Photographic Society, Proceedings of, 20, 57, 78, 112, 142, 180
Philadelphia Photographic Society, Library of 26
Photographisches Versuchs-Atelier, Vienna 27
Printing Frames, Novel 27
Photo-Engraving on Wood . . 37
Pancoast, Chas. R., Contribution by 40
Photograph, The Modern . . . 42
P. A. of A., Treasurer's Account 45
Photographic Plates, Testing the Rapidity of 54
Photography in Railroad Construction 90
Photography as an Art Critic . . 91
Photography in Russia, 91; in Rome, 192; in Portugal . . . 266
Photographic Robbery 97
Palladium Toning. Frank P. Perkins 111
Photographic Permits Granted in New York 116
Photography, Novel Application of 116
Photo-Engraving 117
Photography, Makroscopic, 147; Magic, 149; Naval, 151; Automatic 204
Picture Profits, Vanishing of . . 150
Plates Wasted 151
Paris, Photographers in 169
Photographic Contrast, A . . . 175
Photographers and Crowds . . 176
Photography and Meteorology . 177
Photography—The Science and Art. H. H. Supplee 173
Posing for a Photograph . . . 180
Printing from Negatives of Strong Contrast 181
Photography and Business. Ellerslie Wallace 217
Photography in Natural Colors, 132, 220
Perfect Animal Photographs. Gamvier Bolton, F.R.S. . . . 221

Picked Photographic Peas . . . 234
Printing-Out Process, New . . 241
Plates, To Clean Back of . . . 242
Photography in Colors. F. E. Ives 252
Photography, Astronomical, 254; Entomological (Illustrated), 259; Orthochromatic (Illustrated), 265; Orthoskiagraphic, 238; Ceramic, 324; Tombstone 325
Professional Enterprise 240
Permanent Historical Photographs 250
Portraiture, Hints on. Ada S. Balin 260
Pizzighelli 273
Primuline, A New Process . . . 275
Photographic Apparatus and Materials at Washington Convention. A. E. Maris 294
Paper, Expansion and Distortion of 316

R

Richmond, W. D., Contribution by 21
Reproductions, German 37
Resemblance of Married Couples 38
Rundschau, Illustrations in . 39, 152
Reducing Bath (French) 152
Ruby Lamp (Folding) 162
Restoring Faded Prints 239
Reproduction of Light by Electricity 290
Rothrock, Prof. J. F., Contribution by, 323; Letter from . . 355
Rank of Photo-Engraver and Etcher 336

S

Stops or Diaphragms. Ellerslie Wallace 1
Silver Waste, Value of. Geo. Brinton Phillips 10
Snappschotte, J. Focus, Contributions by, 11, 56, 83, 98, 193, 227, 257, 332, 365
Schuylkill Fishing Club 25
Silver Printing Bath. Chas. L. Mitchell, M.D. 33
Souvenir, Gutekunst, ... 36, 119
Stops 40
Silver Cup Prize, The 62
Sachse, J. F., Contributions by, 65, 70, 95, 97, 161, 175, 177, 183, 199, 213, 233, 242, 293, 307, 342
Seaman, W. H., M.D., ... 67
Seasonable Suggestions, J. F. Sachse (Illustrated) 70
Supplee, H. H., Contributions by, ... 73, 129, 153, 173
Search Power of the Camera, J. F. Sachse 95
Smokeless Powder, Photo. of . . 132
South Jersey, Am. Photo. in . . 149
Silver Printing. Edward Dundore 158
Stellar Photography 178
Substitute for Glass and Films . 342
Shad Fishing on the Delaware (Illustrated). Thos. H. McCollin 181
Silhouette, The (Illustrated). J. F. Sachse 183
Stereoscopic Photography . . . 202
Success in Portraits (Illustrated). Xanthus Smith, ... 213, 247
Smith, Xanthus, Papers by, 213, 247, 280, 309
Sensitizing Canvas for Enlargements 237
Spotting 242
Some Hints About Negatives. J. F. Sachse 307
Stereoscopic Views in the Lantern 370

T

Toning Silver Prints with Metals of Platinum Group. W. H. Green 52

Tripod, Universal 38
Toning and Fixing. Joseph Wormald 86
Toning, Palladium 111
Trousseau Album. J. F. S. . . 177
Taylor, A., A.R.S.M., Paper by 203
Toning Baths, 222; Italien, 240; Purple 346
True Color Values in Photography. J. F. Sachse 242
Transparencies, Development of 273
To Sutton's Island with a Camera. Xanthus Smith 280
True Color Values 293
Tombstone Photography . . . 325

V

Vapors. A Word in Reply . . 66
Veress, Franz de. Photography in Natural Colors, 132; Letter from 346
Vidal, Leon, Paper by 191
Veress Experiments, The . . . 346

W

Wallace, Ellerslie, Contributions by 1, 7, 29, 93, 101, 127, 186, 217, 311
Wallace, Ellerslie, Illustration by 1
Weights and Measures. Ellerslie Wallace 29
Woman's View of Photography. Mrs. Camera Tripod 55
White Mountain Slides 62
Wormald, Joseph, Paper by . . 86
Weather-Wise 91
Washington Headquarters, Valley Forge (Illustrated.) J. F. Sachse 161
What Photography Will Not Do. Abney 171
Why the Subject Could Not Look Pleasant 182
Women, New Profession for. Charles A. Young 304
Wonderful Invention, A 305
Women and the Camera. Eliza Putnam Young, Paper by . . 360

Y

Young, Charles A., Paper by . 304
Yellow Stains 210

Z

Zoological Studies. O. Anschütz 155